

RECEIVED
CENTRAL FAX CENTER
DEC 18 2007

Application Number 10/559881
Response to Office Action dated 09/25/2007

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Original) An ultrasonic probe comprising: an ultrasonic transducing part for transmitting and receiving an ultrasonic wave; an outer case for storing the ultrasonic transducing part; and an acoustic medium charged in the outer case, wherein the acoustic medium contains 1,2-butylene glycol.
2. (Original) The ultrasonic probe according to claim 1, wherein the acoustic medium is formed of only 1,2-butylene glycol.
3. (Original) The ultrasonic probe according to claim 1, wherein the acoustic medium further contains at least one material that is soluble in 1,2-butylene glycol and a liquid at a temperature of 10°C to 40°C.
4. (Original) The ultrasonic probe according to claim 3, wherein the material is at least one selected from the group consisting of ethylene glycol, 1,3-butylene glycol, and water.
5. (Original) The ultrasonic probe according to claim 4, wherein the material is 1,3-butylene glycol.
6. (Original) The ultrasonic probe according to claim 1, wherein the acoustic medium contains 25 to 100 wt% of 1,2-butylene glycol.
7. (Original) The ultrasonic probe according to claim 1, wherein the acoustic medium has an acoustic impedance of 1.45 to 1.517 MRayl at a temperature of 20°C, and produces an ultrasonic attenuation of 0.07 to 0.091 dB/mm at a frequency of 3 MHz.

Application Number 10/559881
Response to Office Action dated 09/25/2007

8. (Original) The ultrasonic probe according to claim 1, comprising a mechanism for oscillating or rotating the ultrasonic transducing part.
9. (Original) The ultrasonic probe according to claim 1, wherein the ultrasonic transducing part includes an array element in which a plurality of transducers are arranged.
10. (New) The ultrasonic probe according to claim 1, wherein the outer case includes an ultrasonic wave propagation window.